Title (en)

Method for controlling regenerative braking and friction braking

Title (de)

Verfahren zur Steuerung der regenerativen Bremsung und Reibungsbremsung

Title (fr)

Procédé de contrôle de freinage par récupération et freinage à friction

Publication

EP 2055588 A2 20090506 (EN)

Application

EP 08019079 A 20081031

Priority

- US 98522107 P 20071103
- US 26024208 A 20081029

Abstract (en)

A vehicle includes a powertrain system and a friction braking system communicating tractive torque with a driveline, the powertrain system including a torque machine, and an energy storage device connected to the torque machine, said torque machine communicating tractive torque with the driveline. A method for controlling regenerative braking and friction braking includes monitoring a vehicle operating point, determining a braking torque request, determining a regenerative braking motor torque ratio based upon the vehicle operating point wherein the regenerative braking motor torque ratio is non-linearly dependent on the vehicle operating point, and actuating the friction brake based upon the regenerative braking motor torque ratio and the braking torque request.

IPC 8 full level

B60W 20/00 (2006.01); **B60W 30/18** (2012.01); B60W 10/08 (2006.01); B60W 10/18 (2012.01)

CPC (source: EP US)

B60K 6/365 (2013.01 - EP US); **B60K 6/445** (2013.01 - EP US); **B60K 6/547** (2013.01 - EP US); **B60L 7/14** (2013.01 - EP US); **B60L 7/18** (2013.01 - EP US); **B60L 7/26** (2013.01 - EP US); **B60L 50/16** (2019.01 - EP US); **B60L 50/61** (2019.01 - EP US); **B60T 1/10** (2013.01 - EP US); **B60T 13/586** (2013.01 - EP US); **B60W 10/02** (2013.01 - US); **B60W 10/06** (2013.01 - EP US); **B60W 10/08** (2013.01 - EP US); **B60W 10/18** (2013.01 - US); **B60W 10/184** (2013.01 - EP US); **B60W 30/18109** (2013.01 - EP US); **B60W 30/18127** (2013.01 - EP US); B60K 1/02 (2013.01 - EP US); B60L 2220/18 (2013.01 - EP US); B60L 2240/12 (2013.01 - EP US); B60L 2240/423 (2013.01 - EP US); B60L 2240/445 (2013.01 - EP US); B60L 2240/486 (2013.01 - EP US); B60L 2240/662 (2013.01 - EP US); B60T 2270/604 (2013.01 - EP US); B60W 20/00 (2013.01 - EP); B60W 2050/0006 (2013.01 - EP); B60W 2510/0671 (2013.01 - EP US); B60W 2510/0676 (2013.01 - EP US); B60W 2510/1015 (2013.01 - EP US); B60W 2510/104 (2013.01 - EP US); B60W 2520/10 (2013.01 - EP US); B60W 2520/28 (2013.01 - EP US); B60W 2540/10 (2013.01 - EP US); B60W 2540/12 (2013.01 - EP US); B60W 2540/16 (2013.01 - EP US); B60W 2555/20 (2020.02 - EP US); B60W 2710/0605 (2013.01 - EP US); B60W 2710/0616 (2013.01 - EP US); B60W 2710/083 (2013.01 - EP US); F16H 3/728 (2013.01 - EP US); Y02T 10/62 (2013.01 - EP US); Y02T 10/64 (2013.01 - EP US); Y02T 10/70 (2013.01 - EP); Y02T 10/7072 (2013.01 - EP US); Y02T 10/72 (2013.01 - EP US); Y02T 90/16 (2013.01 - EP US); Y10S 903/947 (2013.01 - EP US)

Citation (applicant)

US 98522107 P 20071103

Cited by

FR3012376A1; FR2981033A1; FR3009242A1; EP3040233A4; US9827873B2; WO2015015081A1; WO2013054034A3; US9421870B2; WO2021236411A1

Designated contracting state (EPC)

DE

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

EP 2055588 A2 20090506; **EP 2055588 A3 20120502**; **EP 2055588 B1 20130320**; CN 101434202 A 20090520; CN 101434202 B 20120321; US 2009118887 A1 20090507; US 8135526 B2 20120313

DOCDB simple family (application)

EP 08019079 A 20081031; CN 200810177855 A 20081103; US 26024208 A 20081029